CHAPTER I

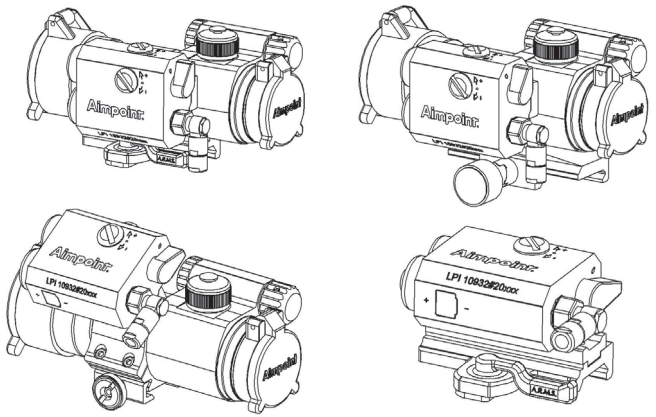
1.1 PRESENTATION

The Aimpoint LPI, IR Laser Aiming Device is a development based on long experience in engineering and manufacturing of lasers ranging from pistol to military infantry rifle applications. The Aimpoint LPI is intended to fit on AIMPOINT red dot sights, which means that no special rail system is required.

The laser beam can be adjusted in X and Y axis independently. The Aimpoint LPI is a truly unique tool, light weight, small and sturdy.

1.2 SPECIFICATION

Material - housing:	High strength Aluminum
Surface finish:	Anodized black
Housing width:	44 mm +/- 0,5 mm
Housing height:	24 mm +/- 0,5 mm
Overall (housing) length:	(47,5 +/- 2 mm) 77 mm +/- 2 mm
Weight (incl. battery):	150 gr, 5,3 oz
Max temperature range:	- 10º to + 50º C , +14º to 122º F
Water resistance:	Submersible to 10 m water depth
Battery:	3V, Lithium battery of type DL1/3N, 2L76
Mounting:	The Aimpoint LPI can be mounted with 4 different interfaces.



Setting: The Laser has two different power settings to enable the selection of the power for short range or long range. The performance of the night vision equipment used varies from manufacturer and the range for the low and high power will differ accordingly.

Light source	**Wavelength**	**Beam output power**	
Setting High	840 nm (IR)*	0.1 mW**	
Setting Low	840 nm (IR)*	0.005 mW**	
Light source	**Beam Shape**	**Beam divergence**	**Laser class**
Setting High	5 x 2 mm	typ 0.5 mrad	1**
Setting Low	5 x 2 mm	typ 0.5 mrad	

Adjustment of laser beam	1 Click = 0.28 mrad
Adjustment range of laser beam	± 20 mrad

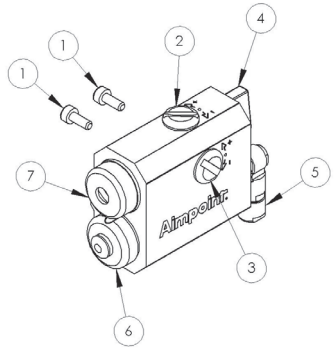
Unless indicated otherwise, the data is accurate at ambient room temperature and normal operating conditions.

* Typical.

** Important notice: Beam output power will be set as required by the user. The user is solely responsible for the observation of the applicable safety regulations. The max and the min level can be separated by a factor of no more than 20.

1.3 Location and description of major components and functions.

1. Mounting screws
2. Vertical adjustment screw
3. Horizontal adjustment screw
4. Power selector/Off
5. Contact for Remote switch pad trigger
6. Battery cover
7. Lens cap



CHAPTER II
OPERATION

2.1 ASSEMBLY AND PREPARATION FOR USE

WARNING: Insure the weapon is unloaded and the safety selector is in the ”safe” position before attempting to install, remove or perform maintenance on the laser.

2.1.1 Installing laser on the weapon

Installing the laser on the sight or on the rail of the weapon
The laser has to be fitted with the mount corresponding to the mount used on your red dot sight. Remove the upper part of your red dot sight mount and fit the laser in its place as shown. Use thread lock (Loctite) when assembling the laser to the mount with the 2 mounting screws (1).

2.1.2. Installing remote switch pad trigger
Screw Trigger in to the side connector of the laser unit (5).
Attach Trigger pad to weapon using the Velcro lock. Usual positions are on the pistol handle or over the thermal cover of the barrel using the supporting hand for activation.

2.1.3 Installing the battery
Open battery cover (6). Insert battery in the correct direction in the same way as you fit the battery in the red dot sight. Make sure that the battery contacts are clean. Close battery cover.

2.2 OPERATING PROCEDURES

2.2.1. Selecting a laser:
Turn the selector (4) to the desired position. The laser beam will only be activated once you press the switch pad.

Left Position:	Laser OFF
Position 1:	The Laser is at low power.
Position 2:	The Laser is at high power.

2.2.2. Switch pad trigger activation:
The laser must be on position 1 or 2.
Pressing the Trigger switch activates the Laser.
When the switch is released, the laser is interrupted.

2.2.3. Adjustment of the Laser beam:
The laser can be adjusted horizontally and vertically.

Horizontal adjustment using the side located adjustment screws (3).
Vertical adjustment using the adjustment screws located on top (2).
To correct the point of impact, proceed as follows:

- Turning the side adjustment screw in the “+” direction moves the point of impact to the right.
- Turning the side adjustment screw in the “-” direction moves the point of impact to the left.
- Turning the top adjustment screw in the “+” direction moves the point of impact down.
- Turning the top adjustment screw in the “-” direction moves the point of impact up.

One click equals approx. 3 cm at 100 m

MAINTENANCE

The LPI requires no routine maintenance. When the lenses are soiled by dirt or gun powder residue, a soft optical cloth is required to wipe the lens clean If required, the reflection shields can be removed (7).

Safety notice:
LASER beams can cause damage to the human eye. Target lasers are for use by trained personnel only. The user is responsible to maintain the safety precautions defined by local laws.

The use of this equipment is the sole responsibility of the operator.

Aimpoint®

User’s Manual for

AIMPOINT LPI

IR aiming laser device

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